

ABSTRACT OF THE DISCLOSURE

An optical element supporting device has one ends of two parallel plate springs, which are extended in a tangential direction, fixed to a holder, has the other ends thereof fixed to a fixture member, and has a collimator lens locked in an opening of the holder. A base fixed to the bottom of the fixture member has two yokes formed thereon. Magnets each polarized in two directions are fixed to the insides of the yokes. Coils are fixed to two surfaces of the holder opposed to the magnets. A target is fixed to the holder, and a sensor is fixed to the bottom of the base. When a current flows into the coils, electromagnetic force is produced along an optical axis due to the interaction between the coils and the magnets opposed to the coils. This causes the parallel plate springs to loosen. Consequently, the holder, target, collimator lens, and coils move as a whole along the optical axis.